

ELECTRON WINDOW FOR A LIQUID METAL ANODE, LIQUID METAL ANODE, X-RAY EMITTER AND METHOD FOR OPERATING SUCH AN X-RAY EMITTER OF THIS TYPE

ABSTRACT

The invention relates to an electron window 1 for a liquid-metal anode 2 in the form of a membrane 4. It is provided according to the invention that the electron window 1 has ridges 10 and depressions 11. In addition, the invention relates to a liquid-metal anode 2 into which such an electron window 1 according to the invention is inserted. The invention further relates to an X-radiator which has a liquid-metal anode 2 according to the invention. The invention also relates to a method for operating a liquid-metal anode 2 in which, during the production of X-radiation, stronger turbulence 5 is produced in the flow of the liquid metal below the electron window 1 at the ridges 10.

(Fig. 4)